



Water-Data Report 2008

08095000 North Bosque River near Clifton, TX

Middle Brazos-Bosque Basin
North Bosque Subbasin

LOCATION.--Lat 31°47'09", long 97°34'04" referenced to North American Datum of 1927, Bosque County, TX, Hydrologic Unit 12060204, on right bank at downstream side of bridge on Farm Road 219, 0.5 mi northeast of Clifton, 2.5 mi downstream from Meridian Creek, and 42.0 mi upstream from mouth.

DRAINAGE AREA.--968 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1923 to current year. Monthly discharge only for some periods, published in WSP 1312.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Dec. 1961 to Feb. 1965.

BIOCHEMICAL DATA: Dec. 1961 to Feb. 1965.

REVISED RECORDS.--WSP 788: 1924-26, 1928, 1930. WSP 1058: 1945(M). WSP 1512: 1924(M), 1927, 1928(M), 1929, 1930(M), 1931-33, 1934(M), 1935-37, 1939. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 605.43 ft above NGVD of 1929. Prior to Oct. 1, 1955, and from Apr. 23, 1957 to Mar. 26, 1958, nonrecording gage at site 1.1 mi upstream at datum 17.02 ft higher; Oct. 1, 1955 to Apr. 22, 1957; Mar. 27, 1958 to Sept. 30, 1959 and Jan 2, 1961 to current year, water-stage recorder at present site and datum; Oct. 1, 1959 to Jan. 1, 1961, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records poor. Since installation of gage at least 10% of contributing drainage area has been regulated. At times flow is affected by discharge from floodwater-retarding structures controlling runoff from 202 mi² in the North Bosque River and Green Creek drainage basins. The cities of Meridian, Stephenville and Clifton discharge wastewater effluent into the river above this station. The city of Clifton diverts water from the river upstream from this station for municipal use. No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 9, 1922, reached a stage of about 32 ft, from information by local residents.

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08095000 North Bosque River near Clifton, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	93	61	64	52	51	33	171	307	43	66	4.2	4.4
2	90	61	66	51	49	29	165	245	38	43	3.9	3.7
3	95	59	63	51	46	41	112	199	34	32	3.7	3.2
4	86	59	61	50	40	50	180	170	34	25	3.6	3.1
5	82	55	59	49	43	59	157	152	33	20	3.5	3.1
6	81	50	57	e50	46	77	118	711	33	17	3.9	3.1
7	80	48	55	e50	45	77	105	654	30	13	4.4	3.1
8	79	48	55	e50	46	68	91	409	29	10	4.2	3.2
9	80	48	58	50	58	59	81	284	30	8.6	3.4	3.9
10	76	46	56	49	52	79	108	202	31	5.9	2.6	4.6
11	74	46	58	49	46	80	165	156	27	4.4	2.3	17
12	72	47	60	48	49	68	132	129	26	3.8	0.60	19
13	67	51	62	48	55	60	117	117	26	3.9	0.49	12
14	65	52	64	48	52	62	97	1,410	26	3.7	0.48	9.6
15	77	51	79	47	51	57	80	255	25	4.1	0.48	6.9
16	91	48	88	46	55	50	68	173	22	10	0.75	4.0
17	99	49	80	47	58	42	64	144	22	17	3.3	1.0
18	102	50	72	47	64	670	83	127	22	13	4.9	1.0
19	89	51	66	48	64	940	84	114	21	10	17	4.3
20	76	47	65	48	63	567	77	104	26	8.7	18	4.3
21	67	52	62	47	70	304	78	90	33	8.0	20	4.3
22	71	51	58	47	68	204	76	78	88	7.5	12	4.6
23	74	50	57	45	62	156	70	75	62	7.2	6.4	4.9
24	71	58	55	44	57	129	4,970	71	44	7.5	3.9	5.8
25	69	107	54	48	49	111	1,930	70	33	6.7	4.6	7.5
26	68	152	54	53	41	99	1,120	64	29	6.6	5.7	7.0
27	68	139	54	59	39	96	1,110	68	30	5.9	5.3	1.6
28	66	109	55	63	34	99	1,530	71	25	4.8	4.8	1.3
29	64	88	54	64	36	93	724	58	27	4.2	4.5	1.7
30	63	76	54	56	---	89	429	50	100	4.2	4.4	1.9
31	62	---	53	54	---	80	---	46	---	4.1	5.7	---
Total	2,397	1,909	1,898	1,558	1,489	4,628	14,292	6,803	1,049	385.8	163.00	155.1
Mean	77.3	63.6	61.2	50.3	51.3	149	476	219	35.0	12.4	5.26	5.17
Max	102	152	88	64	70	940	4,970	1,410	100	66	20	19
Min	62	46	53	44	34	29	64	46	21	3.7	0.48	1.0
Ac-ft	4,750	3,790	3,760	3,090	2,950	9,180	28,350	13,490	2,080	765	323	308

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	135	89.5	185	156	292	290	368	526	307	109	61.1	106
Max	1,438	1,527	7,330	1,442	3,738	2,681	3,739	2,626	4,071	2,699	1,238	1,484
(WY)	(1960)	(2005)	(1992)	(1938)	(1992)	(1998)	(1957)	(1957)	(2007)	(2007)	(1995)	(1936)
Min	0.00	0.03	0.05	0.25	1.16	0.66	1.26	1.40	0.44	0.00	0.00	0.00
(WY)	(1952)	(1956)	(1956)	(1957)	(1952)	(1956)	(1925)	(1984)	(1984)	(1954)	(1929)	(1952)

08095000 North Bosque River near Clifton, TX—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008	Water Years 1924 - 2008
Annual total	327,233.27	36,726.90	
Annual mean	897	100	218
Highest annual mean			1,366
Lowest annual mean			11.7
Highest daily mean	34,400	Jun 27	96,800
Lowest daily mean	0.19	Jan 6	0.00
Annual seven-day minimum	2.7	Jan 1	0.00
Maximum peak flow			200,000
Maximum peak stage		10.28	a38.30
Annual runoff (ac-ft)	649,100	72,850	158,000
10 percent exceeds	1,920	130	344
50 percent exceeds	86	52	24
90 percent exceeds	5.2	4.2	1.4

^a From floodmark.

